Siddharth Bhattacharjee

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SKILLS

Languages and frameworks: Golang, C, C++, Python, Typescript, Java, Rust, Solidity, GraphQL, React, Angular 8/JS.
Tools: Kubernetes, Helm, AWS, GCP, Terraform, gRPC / Protobuf, Apache Kafka, PostgreSQL, Prometheus.

EDUCATION

University of Waterloo   Graduating April 2023
Bachelor of Applied Science in Computer Engineering   *Term - 4B*
· **Relevant Courses**: Distributed Systems, Computer Security, Real-Time Operating Systems, Systems Programming and Concurrency, Compilers, Database Systems, Computer Networks.

EXPERIENCE

Carta   Kitchener, ON
Software Engineering Intern   *Sept 2022 - Dec 2022*

Zynga   Toronto, ON
Software Engineering Intern, Data Ingestion   *Jan 2022 - April 2022*
· Architected and deployed observability infrastructure for new serverless data streaming pipeline.
· Built generic metrics library in Go to serve StatsD-like metrics to different providers like AWS Cloudwatch and Datadog.
· Streamlined QA and debugging pipelines by improving monitoring and logging using Splunk, Nagios and Terraform.

Dapper Labs   Vancouver, BC
Backend Engineer Co-op, NBA TopShot   *Jan 2021 - April 2021*
· Architected a data verification platform from scratch in Go to significantly accelerate Customer Support workflows.
· Optimized GraphQL queries by migrating resolvers to a dedicated read service and utilizing pagination and field querying. Reduced overall response time for queries by **70%**.
· Led development on implementing new restrictions on transferring NFTs to minimize fraud on the platform.
· Created data migration jobs and corresponding event handlers to facilitate aforementioned feature work and data analysis.

DBRS Morningstar   Toronto, ON
Software Engineering Intern   *May 2019 - August 2019*
· Designed bulk import tool allowing analysts to instantiate **1000+** ratings through Excel spreadsheets at once.
· Created **view models** used for PDF generation to automate data retrieval, reducing workflow for analysts by **45%**.
· Developed components in Angular 8 and corresponding RESTful API endpoints using ASP.NET Framework as part of new workflow to streamline ratings process for analysts.

Waterloop   Waterloo, ON
Server Systems Developer   *Jan 2019 - April 2019*
· Designed Golang server and Protobuf interfaces for data streaming between desktop server and pod over WebSockets.
· Created Javascript + MongoDB client to test and log incoming pod information.

HORIBA Test Automation   Burlington, ON
Software Developer Co-op   *Sep 2018 - Dec 2018*
· Refactored XML resources using C# scripts, data models and 2-way data binding to create modular and cleaner schemas for approximately **40 device drivers**, reducing file size of device drivers by **30%-40%** and processing time by **90%**.

PROJECTS

Twitch Data Tool *(Python, Pandas, Matplotlib)*   ⌨
· Tool to analyze over **40,000+** streamed messages per hour sent over IRC protocol using WebSockets and display relevant information like user engagement and viewer count in real-time.